

REMARKS

After the foregoing Amendment, Claims 1, 2, 3, 5, 6, 7, 9, 10, 11, 13-17, and 20-28 are currently pending in this application. Claims 4, 8, 12, 18 and 19 have been canceled without prejudice. Claims 1, 5, 9, 15, 21, 24, 25, and 28 have been amended to more distinctly claim subject matter which the Applicants regard as the invention.

In the Final Action, the Examiner refers to "Applicants Admitted Prior Art (hereinafter AAPA)". It should be noted that Applicants do not admit that all the information provided in the background is "prior art". The information in the background is provided to give a context for the invention and not as an admission that any of the contextual information is publicly known information or would constitute prior art. Applicants may provide information in the background that may not constitute prior art under the requisite statutes or case law, but have provided the information to place the Application in better context.

Failure to Meet Requirements of 37 CFR 1.121

The Examiner requests correction of the Amendment document, filed on 25th of October 2004. The claim status of claim 21 was incorrectly shown as (Previously

presented), rather than (Currently Amended). Accordingly, a replacement sheet of the October 25th, 2004 Amendment document is provided herewith.

Claim Objections

The Examiner objected to claims 24 and 28 for the following informalities:

In claim 24, there was an extra "." at line 3. In claim claims 24 and 28, there was an extra "the" at the end of line 4, respectively. These informalities have been corrected and withdrawal of the objection to the claims 24 and 28 is respectfully requested.

Claim Rejections - 35 USC § 112

Claims 24 and 25 stand rejected under 35 U.S.C. §112 for failing to particularly point out and distinctly claim the subject matter which applicants regard as the invention.

Regarding claim 24, the phrase "the first station" at line 4 has been amended to --a first station--; and the phrase "the second station" at line 9 has been amended to --a second station--.

Regarding claim 25, the phrase "the first station" at line 3 has been amended to --a first station--; and the phrase "the second station" at line 9 has been amended to --a second station--.

In view of the foregoing amendments, withdrawal of the 35 U.S.C. §112 rejection is respectfully requested.

Claim Rejections - 35 USC § 103

Claims 1, 4, 5, 8, 9, 12, 13, 15, 18, and 19 stand rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 6,101,198 (Koenig).

Claims 4, 8, 12, 18, and 19 have been cancelled without prejudice.

Regarding independent claims 1, 9, and 15, these claims have been amended to more particularly distinguish the claimed subject matter which the Applicants regard as the invention and the subject matter of Koenig. Specifically, the dedicated functions of the plurality of parallel data highways are more particularly described. A first of the parallel data highways uses all sixteen of its time slots for transferring data to and from an external parallel data highway. A second of the parallel data highways uses eight of its time slots to transfer data to and from a digital signal processor (DSP) and uses eight of its time slots to interface with telephone interface components. A third parallel data highway uses nine of its time slots for high-level data link controlling (HDLC) controllers, uses three of its time slots to transfer data to and from a second processor, and uses four of its time slots for carrying data received and for transmission over the wireless interface using four traffic channels.

Dedicating the data highways in the manner described above provides advantages over Koenig. In particular, the present invention provides a relatively simple structure that allows for the efficient transferring of data over a wireless interface at much higher data rates. Koenig does not teach transferring data over a wireless interface at all or for four traffic channels. Accordingly, withdrawal of the 35 U.S.C. §103(a) rejection is respectfully requested.

Claim 5 is dependent upon claim 1 and claim 13 is dependent upon claim 9, which the Applicants believe are allowable over the cited prior art of record for the same reasons provided above.

Claims 2, 3, 10, 11, and 20 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Koenig as applied to claims 1, 4, 5, 8, 9, 12, 13, 18, and 19, and further in view of U.S. Patent No. 6,415,348 (Mergard).

As described above, independent claims 1, 9, and 15 have been amended to more particularly distinguish the claimed subject matter which the Applicants regard as the invention and the subject matter of the cited references. Since claims 2 and 3 are dependent upon claim 1, claims 10 and 11 are dependent upon claim 9, and claim 20 is dependent upon claim 15, Applicants believe these claims are allowable over the cited prior art of record for the same reasons provided above. Accordingly, withdrawal of the 35 U.S.C 103(a) rejection is respectfully requested.

Applicant: Kaewell Jr. et al.
Application No.: 09/699,145

Claims 6, 7, and 14 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Koenig as applied to claims 1, 4, 5, 8, 9, 12, 13, 18, and 19, and further in view of U.S. Patent No. 6,058,111 (Beyda).

As described above, independent claims 1, 9, and 15 have been amended to more particularly distinguish the claimed subject matter which the Applicants regard as the invention and the subject matter of the cited references. Since claims 6 and 7 are dependent upon claim 1 and claim 14 is dependent upon claim 9, Applicants believe these claims are allowable over the cited prior art of record for the same reasons provided above. Accordingly, withdrawal of the 35 U.S.C 103(a) rejection is respectfully requested.

Claim 16 stands rejected under 35 U.S.C. §103(a) as being unpatentable over Koenig as applied to claims 1, 4, 5, 8, 9, 12, 13, 18, and 19, and further in view of U.S. Patent No. 6,301,291 (Rouphael).

As described above, independent claims 1, 9, and 15 have been amended to more particularly distinguish the claimed subject matter which the Applicants regard as the invention and the subject matter of the cited references. Since claim 16 is dependent upon claim 15, Applicants believe this claim is allowable over the cited prior art of record for the same reasons provided above. Accordingly, withdrawal of the 35 U.S.C 103(a) rejection is respectfully requested.

Claim 17 stands rejected under 35 U.S.C. §103(a) as being unpatentable over Koenig as applied to claims 1, 4, 5, 8, 9, 12, 13, 18, and 19, and further in view of U.S. Patent No. 5,063,592 (Cannella).

As described above, independent claims 1, 9, and 15 have been amended to more particularly distinguish the claimed subject matter which the Applicants regard as the invention and the subject matter of the cited references. Since claim 17 is dependent upon claim 15, Applicants believe this claim is allowable over the cited prior art of record for the same reasons provided above. Accordingly, withdrawal of the 35 U.S.C 103(a) rejection is respectfully requested.

Claim 21 stands rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 5,483,556 (Pillan) in view of U.S. Patent No. 5,381,422 (Shimizu).

Claim 21 has been amended to more particularly distinguish the claimed subject matter which the Applicants regard as the invention and the subject matter of the cited references. Specifically, the claimed invention uses three HDLC controllers for encoding HDLC encoded data into a second HDLC format at a first station. In addition, this double encoded data is transferred over the wireless interface using four traffic channels. The present configuration provides the advantage of efficiently transferring data over a wireless interface. Since Pillan and Shimizu do not teach this configuration, neither individually or in combination, Applicants respectfully submit that the present invention as claimed by claim 21 is

novel and inventive over the cited prior art of record. Accordingly, withdrawal of the 35 U.S.C 103(a) rejection is respectfully requested.

Claims 22 and 23 stand rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 5,483,556 (Pillan) in view of U.S. Patent No. 5,381,422 (Shimizu) as applied to claim 21.

As described above, independent claim 21 has been amended to more particularly distinguish the claimed subject matter which the Applicants regard as the invention and the subject matter of the cited references. Since claims 22 and 23 are dependent upon claim 21, Applicants believe this claim is allowable over the cited prior art of record for the same reasons provided above. Accordingly, withdrawal of the 35 U.S.C 103(a) rejection is respectfully requested.

Claims 24, 25, and 28 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Koenig as applied to claims 1, 4, 5, 8, 9, 12, 13, 18, and 19, and further in view of Pillan and Shimizu.

As described above, independent claims 1, 9, and 15 have been amended to more particularly distinguish the claimed subject matter which the Applicants regard as the invention and the subject matter of the cited references. Since claim 24 is dependent upon claim 1, claim 25 is dependent upon claim 9, and claim 28 is dependent upon claim 15, Applicants believe this claim is allowable over the cited

Applicant: Kaewell Jr. et al.
Application No.: 09/699,145

prior art of record for the same reasons provided above. Accordingly, withdrawal of the 35 U.S.C 103(a) rejection is respectfully requested.

Claims 26 and 27 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Koenig in view of Pillan and Shimizu as applied to claims 24 and 25, and further in view of Mergard.

As described above, independent claims 1, 9, and 15 have been amended to more particularly distinguish the claimed subject matter which the Applicants regard as the invention and the subject matter of the cited references. Since claims 26 and 27 are dependent upon claim 25 which is further dependent upon claim 9, Applicants believe this claim is allowable over the cited prior art of record for the same reasons provided above. Accordingly, withdrawal of the 35 U.S.C 103(a) rejection is respectfully requested.

Based on the arguments presented above, withdrawal of the 35 U.S.C rejections of claim 1, 2, 3, 5, 6, 7, 9, 10, 11, 13-17, and 20-28 is respectfully requested.

Conclusion

If the Examiner believes that any additional minor formal matters need to be addressed in order to place this application in condition for allowance, or that a telephone interview will help to materially advance the prosecution of this

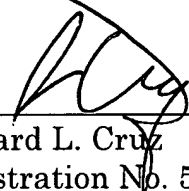
Applicant: Kaewell Jr. et al.
Application No.: 09/699,145

application, the Examiner is invited to contact the undersigned by telephone at the Examiner's convenience.

In view of the foregoing amendments and remarks, Applicants respectfully submit that the present application, including claims 1, 2, 3, 5, 6, 7, 9, 10, 11, 13-17, and 20-28, is in condition for allowance and a notice to that effect is respectfully requested.

Respectfully submitted,

~~Kaewell Jr. et al.~~

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**REPLACEMENT SHEET
FOR October 25th, 2004
AMENDMENT**

**Applicant: Kaewell et al.
Application No.: 09/699,145**

20. (Original) The RNT of claim 15 wherein the high data rate highway is an IOM-2 highway.

21. (Currently Amended) A method of communicating data over a wireless interface of a wireless communication network having a first station and a second station, the method comprising:

producing data having a first high-level data link controlling (HDLC) encoding at the first station for transfer over the wireless interface;

encoding the first HDLC encoded data into a second HDLC format at the first station such that the produced data is double HDLC encoded;

transmitting the double HDLC encoded data over the wireless interface;

receiving the double HDLC encoded data at the second station; and

removing the second HDLC encoding to recover the first HDLC encoded data at the second station, the first HDLC encoding and the second HDLC encoding facilitating error correction over the wireless interface while providing for ~~the~~ an integrity of first HDLC encoded data over the wireless interface.